NEUROPEPTIDES
An International Journal

Editors
M. J. Brownstein
Laboratory of Cell Biology,
National Institute of Mental Health,
Building 36, Room 3A–17
Bethesda, Maryland 20892, U.S.A.

J. Hughes
Parke-Davis Research Units,
Addenbrooks Hospital Site,
Hills Road,
Cambridge CB2 2QB, U.K.

Volume 21

Churchill Livingstone
Edinburgh London Melbourne New York and Tokyo

Claims for issues not received should be made within 3 months of publication of the issue.

Copyright © Longman Group UK Ltd 1992. ISSN 0143–4179.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise, without either the prior written permission of the publishers (Churchill Livingstone, Robert Stevenson House, 1–3 Baxter's Place, Leith Walk, Edinburgh EH1 3AF), or a licence permitting restricted copying in the United Kingdom issued by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London W1P 9HE.

Volume Contents

Volume 21

Distribution of Somatostatin-28 (1-12) in the Cat Brainstem: An Immunocytochemical Study 1
M. De León, R. Coveñas, J. A. Narváez, G. Tramu, J. A. Aguirre and S. González-Barón

Characterization of (^{125}I)TyrII-Somatostatin Binding Sites in the Rabbit Retina 13
G. Liapakis and K. Thermos

Hydrolysis of Substance P in the Rabbit Retina: I. Involvement of Acetylcholine and Acetylcholinesterase. An In Vivo Study 21
D. J. Goebel and R. G. Pourcho

Hydrolysis of Substance P in the Rabbit Retina: II. The Role of a Membrane-Associated Acetylcholine Sensitive Metalloendopeptidase. An In Vitro Study 35
D. J. Goebel and R. G. Pourcho

Thyroid Hormones Regulate the Formation of Inositol Phosphate in Response to Thyrotropin-Releasing Hormone in Rat Anterior Pituitaries 49
T. Iriuchijima, T. Michimata, K. Miyashita, T. Ogiwara, M. Yamada, M. Marakami and M. Mori

Effect of Diabetes on the Levels of Two Forms of Met-enkephalin in Plasma and Peripheral Tissues of the Rat 55
M. G. Kolta, K. Pierzchala, A. A. Houdi and G. R. Van Loon

Erratum 64

Evidence of NK1 and NK2 Tachykinin Receptors and their Involvement in Histamine Release in a Murine Mast Cell Line 65
S. A. Krumins and C. A. Broomfield

Characterization of Calcitonin Gene-Related Peptide (CGRP) Receptors in Guinea Pig Basilar Artery 73
I. Jansen

Gastrin Releasing Peptide (GRP) Binding Sites in Human Bronchi 81
J. N. Baraniuk, J. D. Lundgren, J. H. Shelhamer and M. A. Kaliner

Evaluation of some Substrates and Potential Inhibitors of Tissue Pyroglutamyl Aminopeptidase 1 85
K. S. Svoboda and B. L. Currie

Ontogenesis of the GnRH Neuron System in the Rat. A Quantitative Immunohistochemical Study with Special Reference to the Extra Cerebral GnRH-Positive Cells and the Occupation of Intracerebral Termination Fields 93
G. Sétáló, N. Hagino and E. Dittrich

Chromogranin A Epitopes: Clues from Synthetic Peptides and Peptide Mapping 105
B. M. Gill, J. A. Barbosa, R. Hogue-Angeletti, N. Varki and D. T. O'Connor

The CCK-A and CCK-B Receptor Antagonists, Devazepide and L-365, 260, Enhance Morphine Antinociception only in Non-Acclimated Rats Exposed to a Novel Environment 119
G. J. Lavigne, W. R. Millington and G. P. Mueller

Intrathecal Chlolecystokinin Octapeptide Attenuates the Antinociception and Release of Immunoreactive Met-Enkephalin Induced by Intraventricular β-Endorphin in the Rat 131
H. H. Suh, K. A. Collins and L. F. Tseng

Hyperthermia-Induced Seizures alter the Levels of Methionine-Enkephalin in Immature Rat Brain 139
E. Carrillo, T. Fuente, M. L. Laorden

Autoradiographic Localization of Receptors for Glucagon-Like Peptide-1(7-36) Amide in Rat Brain 143
L. O. Uttenthal, A. Toledano and E. Blázquez

Endogenous Opioid Peptides in Brain and Pituitary of Rats with Absence Epilepsy 147
W. Lasoń, B. Przewlocka, E. L. J. M. Van Luijtelaar, A. M. L. Coenen and R. Przewlocki

The Behavioural Effects of Neuropeptide Y (NPY) Injection into the Rat Brain Frontal Cortex 153
A. Śmialowski, L. Lewińska-Gastol and M. Śmialowska

Calcitonin Gene-Related Peptide Depresses the Growth and Secretory Activity of Rat Adrenal Zona Glomerulosa 157
G. Mazzocchi, L. K. Malendowicz, V. Meneghelli and G. G. Nussdorfer

Inhibitory Effect of D-myo-Insitol-1,2,6-Trisphosphate on Glucose-Stimulated Insulin Secretion in the Mouse 163
B. Ahrén

Antagonism of Ceruletide, a Cholecystokinin Analog, to the Neurochemical Effects of the Non-Competitive N-Methyl-D-Aspartate (NMDA) Receptor Antagonists, Phencyclidine and MK-801, on Regional Dopaminergic Neurons in the Rat Brain 167
T. Kuroki, Y. Tatebayashi, K. Ide, Y. Yonezawa, T. Tsutsumi, T. Matsumoto, M. Hirano and H. Uchimura

Ex vivo Determination of Opiate Antagonist Binding at μ-Opioid ([^{3}H]-Dago) Receptors in Hypothalamic Micropunches from Maturing Female Rats: Comparison Between SDZ 210-096 and Nalmefene 175
K. M. Landymore, A. Giles and M. Wilkinson

Effects of Central and Peripheral Type Benzodiazepine Ligands on Thyrotropin and Prolactin Secretion 183
A. Järvinen, L. Rägo and P. T. Männistö

Cholecystokinin (CCK)-Like Material and CCK mRNA Levels in the Rat Brain and Spinal Cord After Acute or Repeated Morphine Treatment 193
M. Pohl, E. Collin, J. J. Benoliel, S. Bourgoin, F. Cesselin and M. Hamon

Supraspinal Administration of [D-Met^2] FMRFamide Produces a Naloxone-Sensitive Increase in Heart Rate in Unrestrained Spontaneously Hypertensive Rats 201
R. B. Raffa, M. F. Addo and A. Gill

Inhibitory Effects of Okadaic Acid on Thyrotropin and Prolactin Secretion from Rat Anterior Pituitaries 207
T. Iriuchijima, T. Michimata, T. Ogiwara, H. Mizuma, M. Yamada, M. Murakami and M. Mori

Cerebral Hypermetabolism Produced by Intraventricular Endothelin-1 in Rats: Inhibition by Nimodipine 211
P. M. Gross, D. S. Wainman, F. J. Espinosa, S. Nag and D. F. Weaver

The Effect of C-Terminus and N-Terminus Iodination on Avian Pancreatic Polypeptide (APP) Binding to its Chicken Brain Receptor 225
M. L. Adamo and R. L. Hazelwood

The Effects of Neuropeptides on Mucous Glycoprotein Secretion from Human Nasal Mucosa in vitro 231
J. Mullol, R. D. Rieves, J. N. Baranuik, J. D. Lundgren, M. Mérida, J. H. Hausfeld, J. H. Shelhamer and M. A. Kaliner

Sites of Synthesis of Chromogranins A and B in the Human Brain 239
J. D. Erickson, R. Lloyd, J. Q. Trojanowski, A. Iacangelo and E. Eiden

Glycosylation Variants of Endopeptidase-24.11 ('Enkephalinase') 245
T. A. Vida and L. B. Hersh

Subject Index 257

Author Index 261